

Former SDI researcher speaks out:

# Multi-billion dollar fraud

by Mathew Copas

**F**ive years ago, U.S. President Ronald Reagan launched his Strategic Defense Initiative (SDI)—a plan to provide an anti-nuclear "astrodome" over the U.S., to destroy all ballistic missiles before they reached its soil.

This system, otherwise known as "Star Wars", has increasingly come under fire by scientists such as Queen's University computer science professor David Lorge Parnas. He spoke last week at Concordia.

Parnas, who resigned from a \$1000 a day job with the SDI Organization, is now among the most vocal opponents of Star Wars. He described it as both "impossible and dangerous."

**The real Star Wars battle is whether [the father of SDI] will get a fourth star.**

"People who participate in it are participating in fraud," he said.

Parnas attacked the legitimacy of a defence system relying heavily on computer software. "The weapons will be controlled by computers ... [They] are the glue that holds the whole system together. If we don't have reliable computers, we don't have a reliable system," he said.

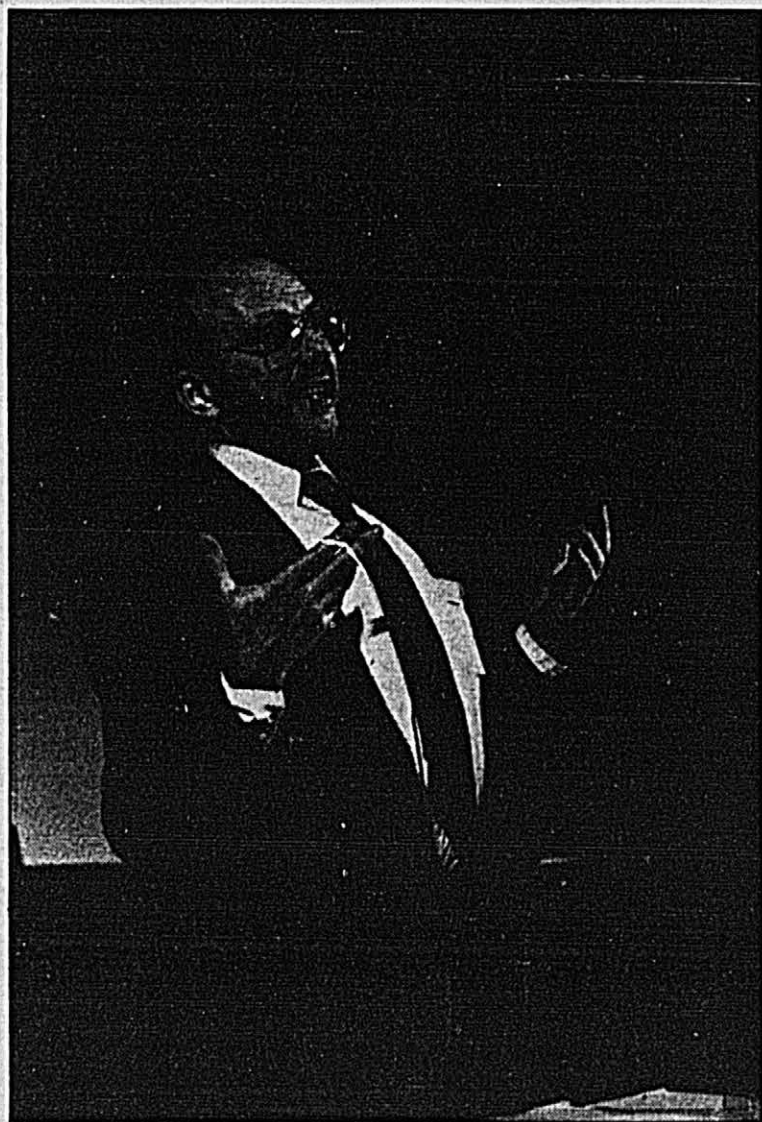
But according to Parnas, computers are far from trustworthy, and their effectiveness in a real battle is impossible to predict.

The most important function of the space-based SDI computers will be to distinguish between thousands of warheads and decoys. Parnas said directed-energy weapons such as lasers could "at best burn a hole in the warhead that might sail on unperturbed." Knowing how many targets have been destroyed, he added, "would be difficult to do."

According to Parnas, the only way to ensure the reliability of such a system under largely unpredictable conditions is through exhaustive testing and redundancy in hardware. This would be an exorbitantly expensive proposition.

In order to make a fair appraisal of SDI software, said Parnas, it would have to be tested under a real attack. He compared this to putting two guinea pigs in control of SDI computers during a battle and telling them "You've got ten minutes to de-bug it [the system] or the world comes to an end."

Parnas also said military strategists would not likely trust such a system. He speculated this would prevent us from "letting down our



Disillusioned SDI researcher Dr. David Parnas at Concordia last week.

guard and dismantling the old system [nuclear weapons]."

If the enemy assumes the system

is at least partially effective, said Parnas, they will compensate by building more missiles, giving the

U.S. an excuse to increase its missile production. "We will end up accelerating the arms race," he said.

According to Parnas, Star Wars is largely being fuelled by a profit-oriented arms industry, military men seeking promotion and scientists in want of more funding. He also criticised universities who participate in SDI research.

Parnas said the arms industry "is simply looking for a new way to make a living."

Already, arms industry spokespeople claim certain crucial elements of Star Wars, such as directed-energy weapons, are sufficiently developed. In January 1987,

before scientists will be able to determine if they can be used.

According to Parnas, most scientists and others who support SDI are either directly or indirectly employed by the government. He said in the Pentagon the joke goes "the real Star Wars battle is whether General Abrahamson [the father of SDI] will get a fourth star."

Parnas believes that the whole idea for Star Wars was "put in Reagan's head" by members of the arms industry. The amount of money to be made, particularly in an industry that tends to go well over budget, is phenomenal—from \$200 to 600 billion.

**People who participate in [SDI] are participating in fraud.**

Angelo M. Codevilla, senior research official at Stanford's Hoover Institution, defended one laser weapon known as "Alpha," developed by the U.S. Air Force Weapons Laboratory in Albuquerque. He said it "would be entirely adequate for destroying any missile ever built or designed."

**B**ut according to a study commissioned by the American Physical Society, directed-energy technology will require a decade or more of intensive research

Like other opponents of SDI, Parnas is concerned Canada will become a major player in Star Wars. He believes the only way to avoid this is to inform the public and to encourage more criticism. This must be done, he said, in order to counter "a widespread and systematic effort by high U.S. officials to mislead the public."

"For Canada, I think it is clear we have to stay we have to stay away," said Parnas. "I think the U.S. is intent on self destruction, and I wish it well, but gee, I don't want to get leaned-on when it's dying."

## Heart disease: Food for clot

by Sharon I. Forrest

**C**oronary heart disease is a disease of choice. Smoking, high serum cholesterol and elevated blood pressure, the big three causes of heart attacks, can all be limited by will power, a Montréal heart expert says.

On March 15, Dr. John Burgess, Director of the Cardiology Division at the Montréal General Hospital, told a crowd of 100, mostly greying and all concerned, that heart disease takes more lives yearly than cancer.

"55 000 Canadians die from heart attacks per year—a rate which far exceeds cancer, stroke or any other life threatening disease in our society," said Burgess adding that, "many people are not aware of their problem [heart disease] and develop sudden death which is difficult to cure."

Heart disease has been on the decline for the past 15 years, the mortality rate has gone down by 25

to 30 percent in certain areas of the world and according to Burgess, this trend is due to the influx of research and public information programs.

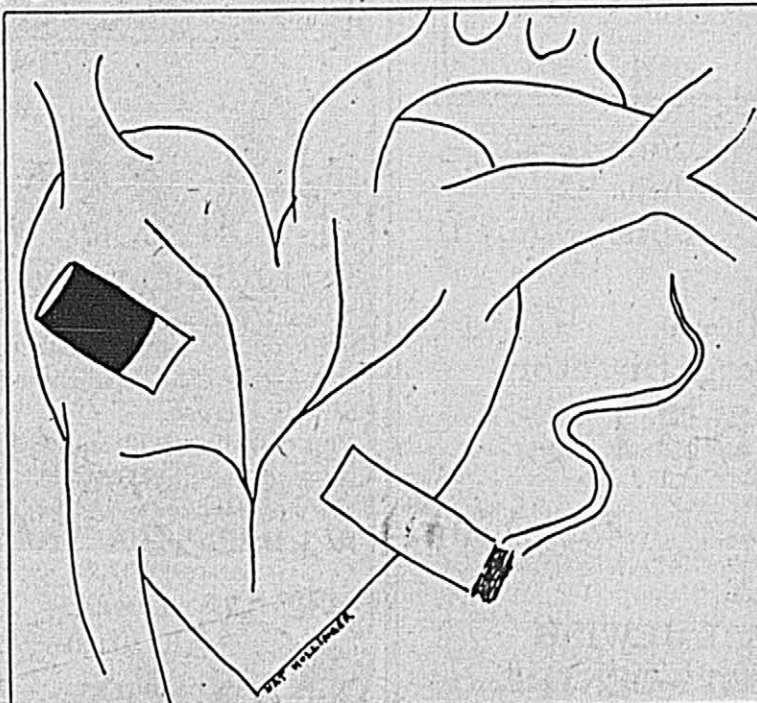
"Research is not a frill—it is an essential component of health care and of the cure of disease." It was research that brought to light the underlying biology of coronary

heart disease.

Heart attacks happen when the blood vessels that take blood to the heart are blocked. With no blood (which carries oxygen) reaching the heart, it stops and the owner of the heart dies. The most recent theory as to how the blockages occur is known as the "arterial injury theory."

"A blood vessel is a high pressure tube made up of muscle-like endo-

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# The hazards of lifestyle

by Tarek Razek

One out of every three North Americans will get cancer. This 'epidemic' is a result of certain self-imposed risks according to Gerald Hill, a professor of epidemiology at McGill.

Cells and tissues are said to be cancerous when, for reasons not clearly understood, they reproduce more rapidly than usual, assume abnormal shapes and sizes and cease functioning in a normal manner. The spreading of cancer to a vital organ may lead to the death of a patient.

The complex of diseases known as cancer is not new to humans. Tumors have been found in Egyptian and Pre-Colombian mummies, about 5000 and 2400 years old respectively. Cancer is also seen in other organisms such as domestic animals, birds, reptiles and fishes.

Armed with a formidable array of statistical information, Hill presented epidemiological facts concerning the causation of cancer and its relation to the environment. He outlined what are considered to be the major causative factors, ranked according to percentage of cancer deaths. This ranking tends to under-rate skin cancer as it is rarely fatal.

Hill said the percentage of cancer

deaths attributable to the natural components of one's diet is roughly 35 percent. This figure is not exact because the effect of diet is difficult to quantify. Hill's placement of diet so high on a list of causative factors is stunning. On the bright side beans, cruciferous vegetables, fibre and vitamins A, C and E were said to possess a negative effect on cancer development. There is no proof that they may prevent cancer.

The high ranking of tobacco, implicated in 30 percent of cancer deaths, should not be surprising. What is surprising is that it was not first on the list. According to the American Surgeon General Everett Koop, smoking is responsible for 30 000 deaths a month in the U.S. alone.

The remainder of cancer-causing factors could be classified as intermediate causative factors. Sexual behaviour accounts for five percent of cancer deaths. The particular behaviour in question involves promiscuity at an early age, particularly for women. Also, for reasons unknown, women who never give birth run an increased risk of cancer of the genitalia.

The effects of occupations are obvious. Among those not recommended are radiology and uranium mining. Heavy drinking is also as-

sociated with increased cancer risk. Furthermore a synergistic effect of heavy drinking and smoking can increase risk three to four fold.

The combined effect of food additives, industrial products, pollution and medical procedures (i.e., X-rays) amounts to less than one per cent of cancer deaths.

Commenting on these results, Hill said "to a large extent, we choose our own carcinogens."

All of the causes Hill outlined are related to individual behaviour, i.e., smoking, drinking, sexual behaviour and diet. Consequently, the message preached by doctors is reminiscent of that of the Puritan preacher. Oddly enough, the incidence of cancer among such reli-

gious groups is lower than that of the average of the population.

Hill pointed towards the difference between cancer incidence in Utah, where it is low compared to the national average, and Nevada, where it is high.

The effect of pollution should not be forgotten. In a study performed in England using an equal number of male participants from both urban and rural locals, it was found that the urban-to-rural ratio of cancer-related deaths was 9.4 : 1 for non-smokers compared to 3.4:1 for light smokers and 1.1:1 for heavy smokers. Since the effect of the urban locale is so prominent among non-smokers and negligible among heavy smokers, it is an indication

that smoking dampens the effect of air pollution on cancer death rates. As the prevalence of smoking falls, the effect of air pollution may become more prominent.

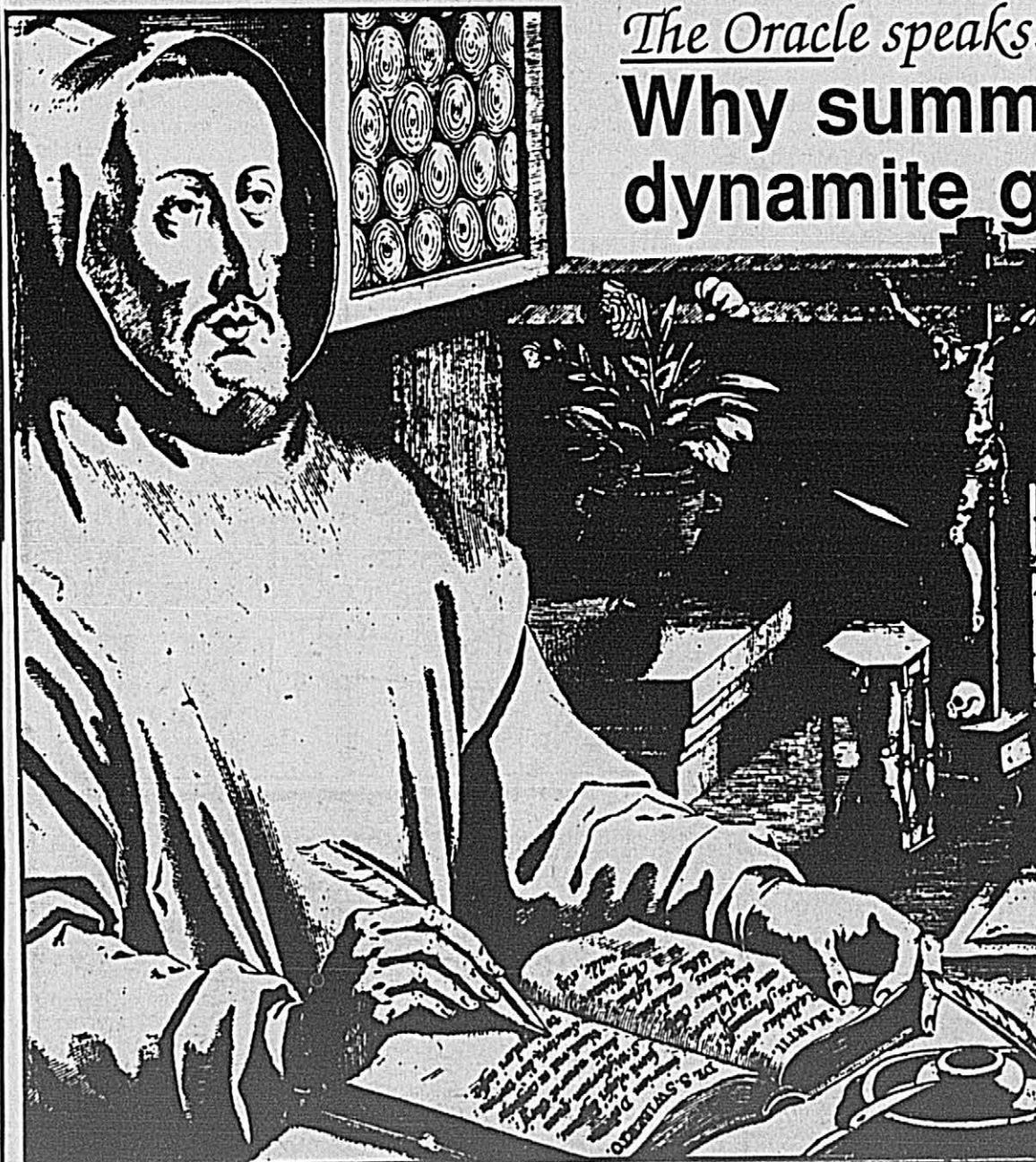
In an interesting comment concerning the fluoridation issue, Hill acknowledged the on-going debate but refused to become personally involved. He would only say the consensus among epidemiologists is that the risk of cancer from fluoride in the water supply is very small.

The moral of the story is become a Puritan, move from Montréal to Utah and continue brushing your teeth with that fluoride-laden toothpaste without a worry (as long as you trust your friendly neighbourhood epidemiologist).



McGill epidemiology professor Gerald Hill: everything gives you cancer.

Daily photo—Peter Chingco



## *The Oracle speaks:* Why summer is hot, and dynamite goes boom, etc.

Why is the tailbone called the 'tail' bone?

—Rachel Brown, U1 Religious Studies

The tailbone is so named because, at the time of its christening, the scientific community was of the erroneous opinion that this bone was a leftover from humanity's evolutionary past. The idea was that, although we have lost our ancestors' tails, the tailbone remained.

Of course, since Dr. Matthew H. Brady disproved the evolutionary theory in 1981, such nomenclature has become obsolete. It is now known that the human race has had the same form since life began on Earth approximately seven thousand years ago. What had previously been interpreted as remains of semi-evolved humans are now known to be *homo sapiens* skeletons, malformed by the pressure of the earth under which they were buried for thousands of years.

The tailbone question is just one of the many problems which eventually destroyed Darwin's flawed theory of evolution. As E. Krebs asks in her new book, *And He Will*: "Why would natural selection pro-

duce a creature so slow, poorly insulated and weak sensed that it could not survive two weeks alone unclothed in the wilderness?"

Why is summer warmer than winter?

—Julio Centrique, U2 Psychology

This is not quite such a simple question as it may seem. Since the discovery in 1973 that the Earth is at the center of the universe and that the sun, planets and stars revolve around it, many changes have had to be made in what once were generally accepted 'facts'.

For example, it is now known that summer warmth comes, not from the sun, but from the boiling mass of lava at the Earth's core. The stronger gravitational force from such constellations as Taurus, Gemini, Cancer, and Leo pull the superheated rock closer to the surface, thus producing a warming trend in the summer months.

It is a wonder to many modern astrophysicists that it took so long for the scientific community to admit that the "angle of the sun" theory was incorrect, when it's a commonly known fact that cloudy

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# ...coronary

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thelial cells," said Burgess, "and because of the tension in this tube, breaks often occur—the higher the pressure, the more breaks. The body responds to this type of injury by sending platelets, a constituent of the blood, to lie down on top of the injured site. The platelets temporarily repair the break and at the same time releases growth factors to encourage healing."

But this type of repair, which is supposed to be helping, can end up hurting, especially if the owner of the blood vessels frequents MacDonald's. Burgess explains why.

"When the platelets lie down to do their job, fat and cholesterol, if it happens to be in the blood, moves in, gets under the platelet and the resulting scar is considerably larger than it would have been without the fat and cholesterol," he said, "Smoking makes the platelets stickier—so there's more scars and more clogs."

The "big three" contributors to heart disease, smoking, elevated levels of cholesterol in the blood (caused by intake of saturated fats) and high blood pressure outweigh, by far, any other factors such as lack of exercise, obesity, carbohydrate intolerance and personality type. But, according to Burgess, non-modifiable factors such as age, sex (women get heart attacks 10 years later than men) and family history (heart disease can be genetically transmitted) should not be ignored.

"It is sad to see people with a

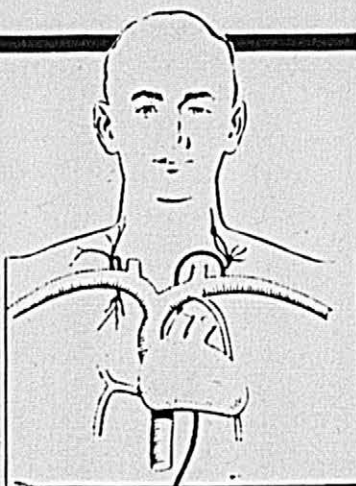
strong family history of heart disease who smoke, who have unchecked high blood pressure and untested serum cholesterol" he said.

Burgess recommended that individuals with a family history of heart disease should definitely have their serum cholesterol monitored and if it proves to be high should alter their diet accordingly (lowering intake of saturated fats). An extensive study done in the late 1950's proved to be a "real shocker." The subjects were males aged 40-59 from seven different countries.

The study showed a definite positive correlation between heart attacks and serum cholesterol levels and also revealed which nations were particularly guilty. The Japanese were at the bottom of the scale with low cholesterol and only a 7 per cent risk of heart attack, while Americans with higher cholesterol stood at 39 per cent risk and surprisingly enough, Finnish farmers have the highest risk of all—56 per cent. Americans and Finns also ate the most saturated fat.

**T**hings have changed since the time of the study and both Americans and Finns have reduced their saturated fat intake. The British, who also eat a lot of fat refused to change because, "You can't tell the Brits what to do," said Burgess.

Smoking is another evil which



strikes the heart.

"Nobody should smoke," said Burgess adding that "more smokers die from heart disease than they do from lung cancer." For some very evident reasons—smoking makes the platelets more apt to stick even when there is no vessel injury, it also causes narrowing of the arteries, an increased heart rate and it decreases the oxygen carrying ability of the red blood cells.

"Even a few cigarettes a day is bad," he said and went on to point out that certain sub-groups are deliberately putting themselves at risk of heart disease and lung cancer by smoking.

"More women are smoking and it's a tragedy. Lung cancer has now surpassed breast cancer in being the number one type of cancer to kill women," said Burgess and "Smoking, in combination with birth control pills increases a woman's chance of getting heart disease eight times," adding "That's not to say women should not take birth control pills, rather they should stop smoking."

Blood pressure is not as important as high serum cholesterol levels when it comes to causing coronary heart disease.

"Despite the large amount of salt consumed by the Japanese [in salt fish] and the associated high blood pressure, their risk of heart attack is quite low because their serum cholesterol is low," he said.

North Americans have made substantial changes in their diet because of the barrage of information available on heart disease over the last decade. Milk and cream consumption has decreased by 24 per cent, butter by 33 per cent, eggs by 12 per cent and animal fats and oils by about 40 per cent. People have increased their intake of vegetable oils and fish, fish oil being an agent which actually prevents plaque build-up.

"I have not seen more than one or two Inuit with heart disease," said Burgess. Inuits eat large quantities of fish.

There is also a 27 per cent decrease in the number of smokers in North America.

## Liberals at McGill:

### Sir Wilfred was one, are you?

The main objective of Liberal McGill this year was to create a structure in which interested members could get involved and provide their input into the club's promotion of Liberal politics at McGill. The dedication and hard work of the numerous individuals who organized policy sessions, coordinated visiting speakers, phoned the membership about meetings and organized social events that revealed how liberal a party can be, all helped to make this year a success.

Another objective of this year's club was to ensure that McGill students had an opportunity to evaluate Liberal policies and the people that espouse them. The overflowing audience that crowded into Fieldhouse auditorium on October 15 had a first hand chance to see John Turner and hear his concerns about the Canadian-American Free Trade Agreement. Despite his image problems, John Turner is a leader with a sense of integrity and honesty, two qualities sadly lacking in today's political environment. Our club organized a policy meeting in which diverse issues such as the need for a National Recycling policy were discussed and debated.

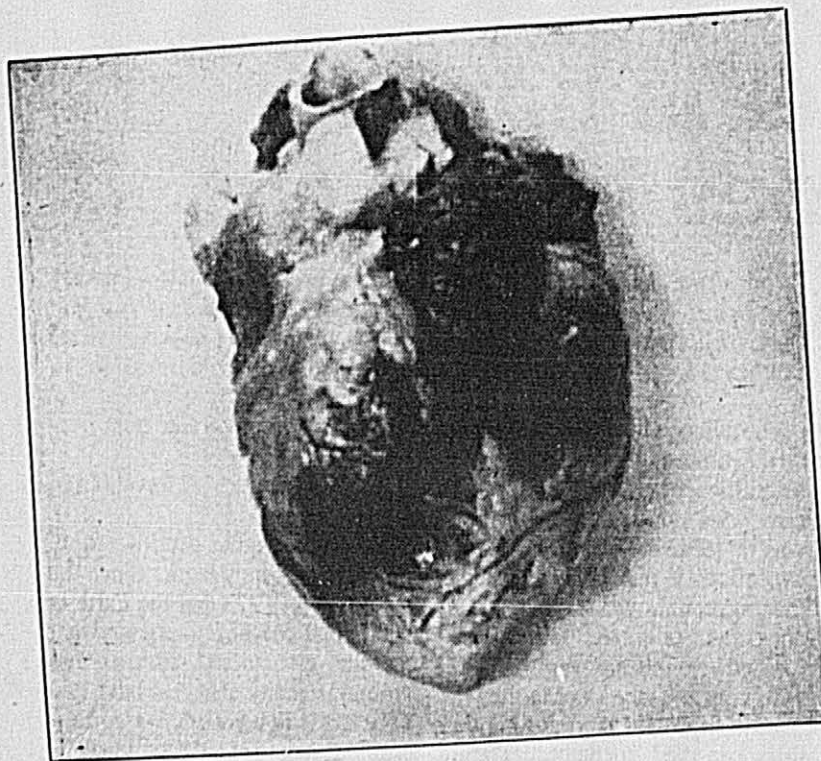
A third objective of the club was to coordinate activities with politically active groups on campus to promote an interest and understanding of politics. Polispeak Week gave McGill students the opportunity to increase their political awareness. Bob Kaplan provided an interesting overview of the problems faced by the CSIS, Raymond Gagneau discussed the Liberal Caucus policy on the Free Trade Agreement, and Tom Axworthy reminded us Canadians that our country has enormous potential that will be realized if we continue to nurture our human resources and complete the task of making Canada a "just" society for all. The Jean Lapierre and Jean Charest debate on Free Trade was informative as a lesson in the shallowness of political partisanship at the expense of intelligent debate.

Why vote for the Liberal party in the next election? The real focus in the next election should not be the Conservative scandals (we Liberals are not lily white and have been caught red handed before), nor should it be about the unrealistic policies of the NDP (pulling out of NATO and keeping our military resources in Canada to defend the Arctic has its merits). The next election should be about what type of society and economy Canada will have into the 1990's. Judge the Liberal Party on its ability to enunciate policies that will meet the challenges of the next decade.

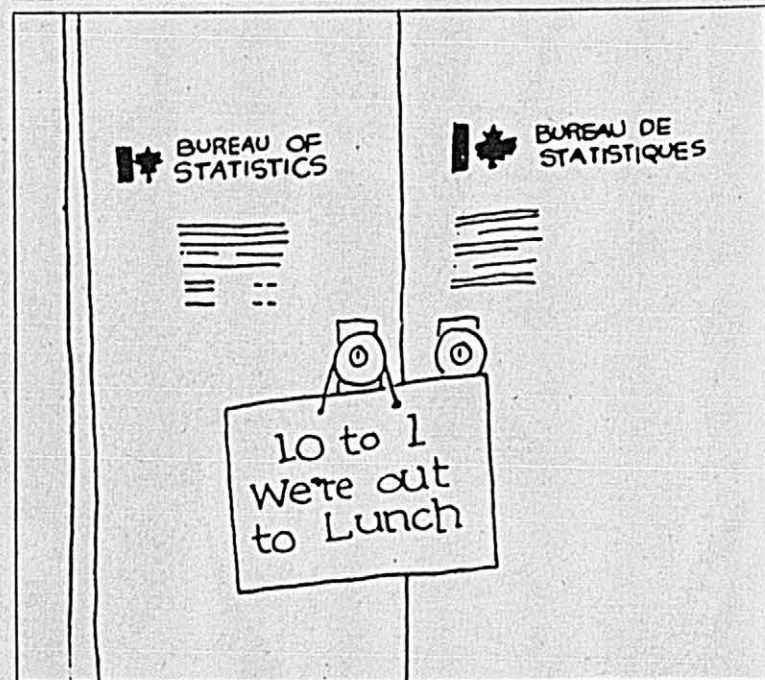
Deliberations '88, as an annual Young Liberals policy conference hosted this year by Liberal McGill, was a chance for Young Liberals to discuss with senior Liberals what direction our party should take in the future. Paul E. Martin, president of Canada Steamship Lines, gave a sincere speech on the need to develop an industrial policy that will support sunrise industries by transferring the human and capital resources out of sunset industries. Liberals are against the Free Trade Agreement because it will hinder Canada's ability to develop competitive industrial policies that a trading nation like ours needs to prosper in the international economy. Liberal Justice critic Bob Kaplan led a controversial discussion on the legal implications of surrogate motherhood. Professor Jim Dewilde, drawing on the ideas of Stuart Smith (Chair of the Science Council of Canada and former leader of the Ontario Liberal Party) discussed the need for government investment in science and technology to make Canada a dynamic world leader in technological development and production. Doug Frith, Liberal defence critic, promised to bring up the issue of fuel-air military research at McGill in the House of Commons.

Looking ahead, Liberals envision a strong and united Canada whose strength is its diversity. A former McGill student said it best, "The twentieth century will belong to Canada." Help Sir Wilfred Laurier to realize his vision by showing up to the last Liberal McGill meeting of the year on Wed. March 30, at 17h00 in the Arts Council room and elect next year's executive. Thank you to all club members that have helped out this year and to those interested students who took the time to come and see what the Liberal Party stands for; a better tomorrow.

Liberal McGill



Someone's heart not in the right place.



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## sciencedition

Kenneth Hare speaks on the greenhouse effect:

# Climatic shock in the future?

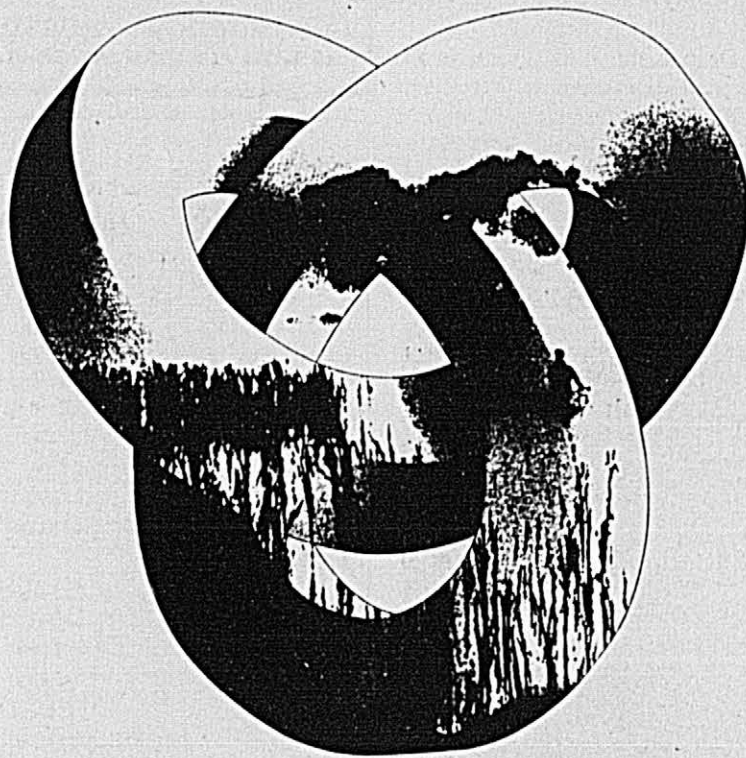
by Alison Hunter

**T**he ever eloquent Dr. Kenneth Hare told a McGill audience why the greenhouse effect "matters a damn." He also strongly urged the climatologists in the audience to develop predictability or give up.

Hare has had a long and very distinguished career, including 19 years teaching at McGill. He has been president of the University of British Columbia, provost of Trinity College in Toronto, and is a Fellow of the Royal Society of Canada. He is currently chairing the Canadian Climate Program Planning Board.

The greenhouse effect is a gradual rise in the earth's temperature caused by the addition of carbon dioxide and other gases to the atmosphere. These gases act like a sheet of glass in a greenhouse. They allow light to penetrate and heat the earth, but slow the dissipation of heat away from the Earth's surface. But don't get your swim suits out yet—the average temperature of the earth has risen six tenths of a degree over the last 125 years.

Hare predicted this trend would accelerate. The average temperature could rise by one or two degrees in the next 50 years. Even such a change does not seem earth shattering when the temperature can change by 20 degrees in less



than a day.

But climate, the long term average of weather conditions, is not what matters. The socio-economic system of a region is structured to take climate into account.

"We know how thick our winter coat has to be, how much money it will take to heat the house this winter, and how much antifreeze we need to protect our cars," he said. "Climate is rendered implicit with technological fixes. Weather is what has an impact—the late or

early frost that kills the crop, the heavy rainfall that floods the basements, or the chinook that melts the ski slope."

Hare said the course of climatic change will not be smooth. It will consist mostly of an increase in the frequency of shocks, unusually warm weather and drought years. Four of the warmest summers ever recorded in Canada have occurred in the last nine years, a highly unlikely series of events unless our climate is changing. Rather than a

pleasant, uniform reduction in the length of winter, we'll get nasty droughts with economic impacts.

The impact of global warming will vary from country to country. Temperature elevation will be greater towards the north, and continental interiors will experience the worst drying. There may be some dust bowl conditions on a permanent basis in the interior United States.

Ironically, sea level changes, one of the results that most people are aware of and many are concerned about, will not be great. Sea level has risen 10 cm in the past century. A further 40 to 60 cm rise may be expected by 2050 if the global economy grows slowly, or at most 1 to 2 metres.

In Canada we can expect milder winters and hotter summers. For Canadian agriculture, the changes will be mostly beneficial, although some areas may require irrigation. Forests should grow more quickly in response to higher temperatures, but we are also likely to have more forest fires and insect outbreaks because of dryness.

Carbon dioxide, the chief culprit in global warming, is a product of combustion. Forests absorb a lot of carbon dioxide, so deforestation contributes to the problem by removing a large sink for carbon.

Modern agricultural practices expose soil to oxygen in the air. The carbon-containing compounds in

the soil are slowly oxidized, giving off more carbon dioxide. Pollutants such as chlorofluoromethanes, other halocarbons and nitrous oxide (from fertilizer) contribute to the greenhouse effect.

At the same time as the carbon dioxide content is increasing, the amount of particulates (dust, other light particles) in the atmosphere is also rising. This may partly counteract the greenhouse effect by cutting the amount of light reaching the earth's surface. The impact of particulates is relatively hard to predict. Another big unknown is the amount of carbon dioxide, and warmth, that the oceans can absorb.

Dr. Hare had some insights on climatic change in Africa, although it is not part of the greenhouse effect. The Sahel has seen a large decline in rainfall since the 1950's. "This has been the most intense and unnerving change in my lifetime," he said.

**T**he green Africa in which many new nations attained independence has steadily deteriorated. "People talk about the effects of drought in Africa as if it is a human and political failure. In reality, no governmental system could have coped with it, although political problems have exacerbated it in areas like Ethiopia," Hare said.

While Meteorologists can predict

continued on page 6

## STEPHEN J. FOGARTY

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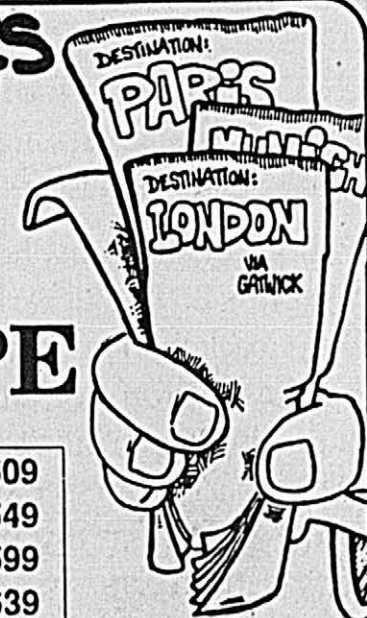
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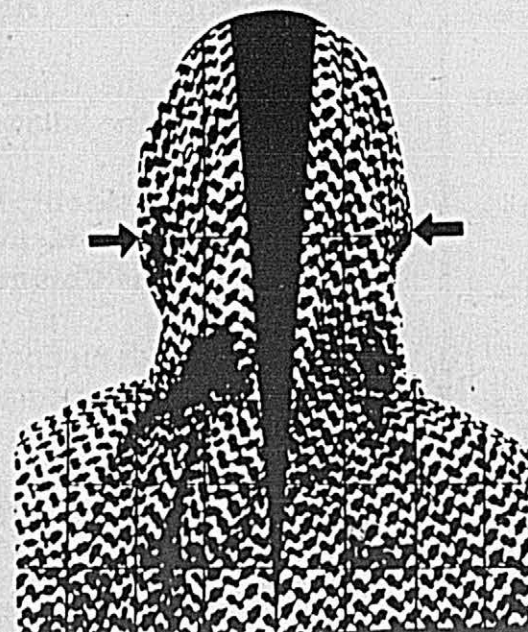
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## MARCH 30th

On March 30, 1976, Palestinians in Galilee organized a general strike to protest the expropriation of their lands, which were destined to become Israeli settlements. The Israeli authorities reacted to the popular uprising with a show of force and as a result several Palestinians were killed and wounded. Since that day, in commemoration of those who lost their lives and as a sign of solidarity, throughout the world March 30 is celebrated by Palestinians and their supporters as the "Day of the Land" (Yom al-'ard).

## THE DAY OF THE LAND



McGill Palestine Solidarity Committee and the McGill Arab Students' Association



Ads may be placed through the Daily business office, room B-17, Student Union Building, 9am - 3pm. Deadline is 2pm two weeks prior to date of publication.

McGill students: \$3.00 per day; \$7.00 for 3 consecutive days; \$2.00 per day for more than 3 consecutive days. McGill faculty and staff: \$4.00 per day. Exact change only, please. Boxed ads are available at \$4.00 per ad / per day - no discounts on boxing.

The Daily assumes no financial responsibility for errors, or damage due to errors. Ad will re-appear free of charge upon request if information is incorrect due to our error. The Daily reserves the right not to print any classified ad.

#### 341 - APTS., ROOMS, HOUSING

The price is right: you get door #1 (sublet large 5 1/2 close to campus), door #2 (May 1, with option to renew) and door #3 (buy all contents!) Call 281-6298 to play.

Sublet 5 1/2, great view, access to roof, Guy metro. May 1 - August 31, option to renew. 939-9592.

Summer sublet. May-August. Bright, spacious, cozy, furnished and equipped 5 1/2. VCR, microwave, waveless waterbed. Peel street. Very quiet roommate. \$400/month includes everything. 848-1866.

2 1/2 to sublet May 1st - option to renew. 2 blocks from McGill on Aylmer St. Stove, fridge, heating included. Very quiet, \$305/month. Call Daniel 849-1417.

Sublet spacious 5 1/2 (May 1 - Aug 1) \$650. Guy metro. Furnished or not. 939-1138. Heat, gas, water, electricity included.

We're slashing prices! Get it while it's hot! 5 1/2 close to campus, sublet May 1 - August 31, option to renew, buy all furniture! \$600/month. Call today: 281-6298.

Spacious, sunny 4 1/2 to sublet May 1 - Aug 31, option to renew, 1 minute from campus. \$550/best offer, 848-0353 anytime.

Large 6 1/2 on St-André and Ontario to sublet. May-June with renewal. \$600 negotiable. Call anytime not before noon. 521-1656.

4 1/2 to sublet, May 1, option to renew. Located on Aylmer, 3 min from campus, beautiful hardwood floors, 3 enclosed rooms, big kitchen. Only \$550 per month, heat included. 848-0297.

2 1/2 summer sublet, option to renew, utilities included, new appliances, laundry facilities, balcony, great view, sunshine in abundance, near Plaza Alexis Nihon, call anytime 933-4309.

Spacious 1 1/2, great summer apartment with large balcony on Durocher. Lots of closet space, laundry facilities, clean and quiet. \$320 available 1 May with option to renew. 848-0570.

Two roommates wanted to share super 6 1/2 near St-Laurent and Sherbrooke. May 1 - Aug 31. Furnished or non (Bdrms.) \$175/month + utilities. 849-9837.

Large, furnished 4 1/2 sublet June 1 - Aug 31. \$650/month or best offer. Located near McGill (Mountain & Dr Penfield). Ideal for 3 or 4 people. Security, laundry. Option to renew. Phone 848-0858.

Sublet 4 1/2, May 1 - Aug 31, option to renew! 3647 Durocher, spacious, sunny, hardwood floors, laundry facilities, no bugs, partly furnished. \$580/month. Call 848-0060 after 6 pm.

Sublet May 1 - August 31, spacious 4 1/2. NDG. Furnished/unfurnished, laundryroom, near all conveniences, bus & metro, across from large park. \$360. 483-2993.

4 1/2 sublet May 1 - Aug 31, option to renew. Sunny, St-Marc Street; \$495/month, negotiable. Call 939-0756.

Summer sublet - female wanted to share large 3 1/2 with one or two other girls. Bright room with French doors. \$200/month + electricity. Phone 939-9561.

Roommate wanted to share large 5 1/2 from May to end of August. 10 minutes from McGill. Hotel-de-Ville Ave., close to St-Denis and Duluth area and its summer fun! \$200/month. Call 281-0842.

Big beautiful studio apt. for rent \$305 incl. Air conditioning, bay windows, bright, vertical venetian blinds, sublet May - Sept, renovated, 848-0069, 849-6941.

4 1/2 to sublet May 1 - August 31, option to renew. At Durocher and Prince Arthur. \$535 plus stove gas. Free fish. Phone Ots, 848-9569.

Sublet May 1 - August 31 Spacious, sunny 1 1/2 on Durocher near Milton. Clean, quiet and convenient. \$300 option to renew. 844-8886.

3522 Durocher: large 3 1/2 May 1 - Aug 31, option to renew. Semi-furnished, laundry facilities, parking, w. to w. carpeting. \$428/month. Call after 6: 286-1430 or 287-9615.

Storage for students: May to August, call Mike 284-1227.

Sublet 4 1/2 from May 1st with option to renew. Bright, big, everything included. \$465 negotiable. 848-0394.

HOUSE to sublet, May 1, option to renew. 5 bedrooms, 2 full bathrooms, big kitchen with dishwasher, newly renovated with balcony. 1 block east metro Atwater, near all facilities with parking space and garage. At \$1000/month this one's a steal. Call 934-5612 anytime.

Room to share - completely furnished, private bath, hardwood floors, dishwasher, microwave, across gym, security, sunroof. May 1 - Sept 1. \$275/month/ Lisa, 288-4735.

Free drugs!!! (Only kidding) to sublet: 4 1/2. \$450/month. Near Guy metro. Crazy landlord. Available May 1. Option to renew. Phone 939-9629.

4 1/2 May sublet with option to renew. 2150 Mackay, near Guy Metro and shopping. Parking and laundry in the building. \$580 or near offer (all included). 939-9643.

Summer fun awaits! Summer sublet a 4 1/2. Bright, clean, hardwood floors, furnished, security, laundry all in prime ghetto location. Phone today [late] 849-5808.

2 bedrooms available in bright, clean, newly renovated 5 1/2. May 1 - Aug 31. Many extras: TV, VCR, microwave, dishwasher, all new. Fully furnished. Ideal location, Prince Arthur near St-Laurent. \$290/room. 845-6213.

Huge apartment, sublet 1-4 spacious rooms, 2 bathrooms, living/dining room, kitchen, hardwood floors, exposed brick. Atwater and Sherbrooke. \$220/room. 931-2168.

4 1/2 very near McGill to sublet for month of April with option to renew. Partly furnished, hardwood floor. \$400 first month, heat included. 484-9793 or 272-4587.

Last chance for a fabulous 4 1/2 on Bishop St. \$550/month - furnished, clean, close to action. Come and see for yourself! Call 848-0420 anytime!

Nice living accommodations in good location in NDG available to female in return for very minor duties and sleeping over with pleasant elderly woman. Please phone 274-3631, local 41. Days only.

Groovy Plateau pad, 4 1/2 sublet May 1 - Aug 31 - renewable. Henri-Julien and Duluth. \$550/month renovated, wood floors, bright & clean - furnished or not. 286-8125.

2 1/2 to sublet on June 15th - option to renew. \$370/month. Recently renovated, all new appliances, clean, no bugs, quiet, laundry facilities. 539 Prince Arthur. 285-1443, 6:30-7pm.

Summer sublet. 11/2 \$250, May 1 - Aug 31. Furnished, everything paid. Laundry facilities, phone. Clean, quiet, bright. 286-0376, 844-8136.

Large 4 1/2 apartment to sublet May 1st, option to renew. Durocher and Milton. Call Ali or Debra at 843-3057.

Beautiful, spacious 4 1/2 to sublet! May and June, only \$485/month with option to renew. 5 minute walk from McGill. Electric heat, hardwood floors, parking. 286-9888.

Beautiful, bright 1 1/2 for rent in modern building. Sublet May 1 - Aug 31 w/option to renew. \$350. Heat, fridge, stove included. 500 Pine Ave W #404. 281-0618.

To share: large, bright 4 1/2, in detached triplex with backyard. Close to metro, 15-20 minutes from downtown. \$140 plus utilities. Please call 767-4474.

Clean and comfortable 3 1/2 to sublet. Large kitchen, hardwood floors, 7 minutes to campus. \$350/month, option to renew. 845-9986.

Roommate needed to share great place (6 1/2) with two great guys (for April). \$240/month - Esplanada and Duluth. Call Ken or Michael 285-8948.

Very cheap sublet. May 1 - Aug 31. 10 1/2 and 5 1/2 and single rooms. Near St-Laurent and Sherbrooke. Let's talk. 499-1208 or 286-7897.

4 1/2 sublet May 1 - August 31, option to renew. 3525 Durocher, large bedrooms, laundry facilities, hardwood floors, 5 minutes from campus. Call 848-0900.

900 Sherbrooke St W, across from McGill campus. Huge 7. May - Aug 31. Renovated, \$900 negotiable. Utilities included. Furnished or non. 281-0834 or 769-1981.

Room for rent, furnished, kitchen and dining room privilege, on metro, \$200/month. Apartment for rent, 4 1/2, furnished, on metro \$450/month. 288-6862.

Roommate wanted for sunny, clean and comfortable 4 1/2 on St-Denis. May 1 to Sept 1. Only \$225/m. Call 845-5194, mornings.

Well-furnished, 2 1/2, Crescent St apt for summer sublet. Includes washing machine. \$470/month. Call Craig: 866-2269.

4 1/2 summer sublet. Only \$167/person or \$500/month. 3 separate rooms, spacious, clean, large kitchen, near campus, Steinbergs, gym. Hutchison and Pine. 848-9521.

2 1/2 to sublet May 1 - Sept 1 (negotiable). On corner of Pine and University. 1 minute from McGill. Big bay window, lots of sunlight. No roaches, etc... \$329/mo with heat, hot water. Fridge and stove. Call Mike at 848-9869.

Fabulous 4 1/2 sublet - May 1 to Aug 1. Renewable. 2 minutes to campus. All included. Carpeted, a/c, balcony, shopping in basement. Must go. Fab view. Call any time. 848-0378.

Female roommate to share with 2 others 4 1/2. April-June \$190. Clean with mountain view, 10 min from McGill. 270-6850.

Nice 4 1/2 to share, May 1st, Prince Arthur & Hutchison, \$275 everything included (except telephone). Furnished, hardwood floor, washer & dryer in apt, microwave. Call Michael or Rob 845-1718.

#### 343 - MOVERS

Student movers will move you at a reasonable cost. Local and long distance. Equipped, storage, insured. Weekly Toronto trips. Call Turan at 747-2222.

#### 350 - JOBS

Barenders - training courses and placement service. Get ready for a very lucrative summer job. The Master School of Bartending, 2021 Peel Street, 849-2828 [student discounts.]

Part-time sales rep. needed. April to July. Must be outgoing, bilingual and have a car. Salaries paid on commission. Gary: 342-2644 after 6:30 pm.

#### 352 - HELP WANTED

Telemarketers required: earn money while you learn the art of sales. Call Communitel 861-8666.

#### 354 - TYPING SERVICES

Professional word processing by B.Sc. - scientific texts; high quality print; translation into English; typing from cassette; editing - on campus drop-off. Call Lisa: 487-5174

Papers, theses, resumes... whatever; fast drafts to laser-finished final versions, processed through desktop publisher at no extra charge: Call AVOCA: 499-9679 [Peel metro].

Typing Services: English - resumes, \$5.00; letters, \$2.00; term papers and essays, \$1.25/page double-spaced for students. Rachel 933-0078 days & evenings. Near McGill.

One-day service. B.Commerce background. Editing, if required. Quality work. Error-free. Improved final mark guaranteed. Skilled with words. Electronic memorywriter. Academic papers, CVs, theses. 340-9470.

Typing, word processing and translation services. Repeat letters, labels, manuscripts, CVs, theses, term papers, etc. [\$1.50 d.s.] 7 days a week, a stone's throw from McGill. Mrs. C. Frenette [844-9817].

One-day service. B.Commerce background. Editing, if required. Quality work. Error-free. Improved final mark guaranteed. Skilled with words. Electronic memorywriter. Academic papers, CVs, theses. 340-9470.

Word processing of handwritten term papers, resumes, repetitive letters, manuscripts. Transcription of regular cassettes or mini-cassettes. NDG Typing. 482-1512.

Typing on wordprocessor. Fast, accurate and convenient. \$1.25/page. Close to campus. Last minutes' accepted. Shehzad: 495-8267.

Typing services: theses, term papers, resumes. Experienced. Rush service. 7 days a week. Student rates. Call Mimi, 484-2913.

Word processing (Loughheed). Professional and courteous service. Laser printer. Theses, papers, resumes, multiple letters. Student rates (schoolwork only). Downtown area. 934-1455 (8h30-19h30 only).

Result resumes - 14 year proven job finder. Quality IBM processing/print, in-depth consulting, free sample. Also student paper specialist: tutoring, editing, consulting, typing. 488-5694.

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Theses, term papers, resumes, 19 years experience. Rapid service. 7 days a week. \$1.50/double-spaced. INM. [2 min from McGill campus]. Translation in both languages. Mrs Paulette Vigneault 288-9638.

#### 356 - SERVICES OFFERED

Plants of all kinds - sale, rental, maintenance - for office or outdoors. Call Alex the landscaping specialist for consultation 389-7270, 324-3794.

Fats, Clubs, Teams, Faculties! Get a jump on the others, call Out Of Context now for caps, Ts, sweats, and boxers [new]. Everything custom printed. Oversized quality Ts, for summer. Call Brahm 626-4299 to order.

Beautiful bodies by design. Personalized consultation in your own home or office. Rick Blatter, Health & Fitness Consultant. Office hours: Saturday mornings 05h30 to 13h30, 625-1352.

Therapy group for adult children of alcoholics. April 20 - August 17. Weekly, Wednesdays: 3:30-5:00 pm. Selection interviews will be held on April 5 and April 7. 398-3601 for interview.

#### 361 - ARTICLES FOR SALE

Bicycle parts: complete Shimano 600, Modolo speedy brakes, 1985 edition. \$175. Call 527-3890.

One-way ticket to Calgary. Leaves Tuesday, March 29. Must be female. Only \$99 o.b.o. Call Eric at 939-1092 or 398-0720.

For sale: Kawasaki K21000-J2, call 482-4160.

To sell: Kawasaki, Ninja 600, 1986, 8-900kms. Bought new in 1987, 2 year guarantee. Yoshimura 4 into 1 \$3,850. Dave after 4 pm. 485-0837.

#### 365 - WANTED TO BUY

Wanted: 1/2 fridge in good condition, reasonable price. Call 849-2646 [leave message]. Also buying antique furniture.

#### 370 - RIDES

Architecture grad needs help driving across Canada. After April 15th. Call days, Rob McCarthy 866-6871.

#### 372 - LOST & FOUND

"Norton, where are you?" Honeymoon's over." Ralph lost Norton Anthology English-lit. Major authors. All my notes are in it. Help! Maura 845-3829.

LOST: pair of white wool mittens, with multi-coloured tassels. Sentimental value for me, to you just another pair of mitts. If found please call 845-5998.

#### 374 - PERSONAL

McGill Nightline... listening, information and referrals... till the wee hours of the morning. 7 days a week. 6 pm till 3 am. 398-6246.

Future co-author: I've given up. Just friends, I know. But if you... Just mention Chocolate - Mr. Red Shoes.

Healthy, handsome, personable student, intelligent and discreet, seeks other young guys interested in platonic or physical friendship. Andrew, Box 764, H2W 2P3.

Had a bad exam or a really bad day? Call Nightline! We're open through the second of May! 398-6246.

If you wanted to but didn't it would really be a bummer! So call Nightline quick before we close for the summer! Through May 2: 398-6246.

Do you want to be a Nightline volunteer! Stay tuned in September of the coming school year!

#### 385 - NOTICES

Simulation Gamer's Guild elections - 6pm, Wednesday, April 6. All members please attend. Room TBA.

Hey... how much do you know about Alpha Omicron Pi, McGill's newest sorority? Well, this is your chance to attend our first informational meeting on Wednesday, March 30th, 7 pm, at 3520 Durocher. Come and meet us and learn more about AOP! - major partying afterwards! For more info, contact Rina, 482-9769 or 849-9266. Hope to see you there!

Last call to bust loose! To Mexico or Greece! Come join the fun and celebrate the end of final exams. Start your summer off with a great tan. For more information call Tonya at 848-0414 or Heather at 457-5356.

#### 387 - VOLUNTEERS

Individuals needed to help women's justice organization, esp. students in criminology, law or social work. Call Ellen Simone, Elizabeth Frye Society 277-7033.

Volunteers needed for new hostel for women with AIDS. Warmth, common sense & 5 hours a week commitment only requirements. Training provided. Call 849-6770. We need you.

McGill University rowing team needs team manager for fall season. Call 398-7000 or Andrea Dingle 932-8040 for inquiries.

Volunteers to provide accompaniment service to downtown elderly urgently needed. Please contact Yellow Door services coordinator, Andrea Richardson, at 398-6243.

#### 389 - MUSICIANS WANTED

Pop-rock singer, writer, composer looking for individual to work with or band to play with. Call Phil at 351-5674.

## McGill Music Sale

Faculty of Music Recordings

\$2.99

McGill



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# ...Oracle pulls leg

continued from page 3

winter days are warmer than clear ones, due to the "thermos" effect of the clouds keeping in the Earth's natural warmth.

**Why does dynamite explode?**

—Sue Renda, U2 Political Science

Dynamite has a very interesting and unusual composition. As with all other substances, it is made up of varying amounts of elemental

earth, air, fire and water; however, dynamite's extremely high fire and air content is surrounded by a thin layer of the other two elements.

Although no amount of shaking will disturb the protective layer, a small amount of added fire (i.e. a match) will unbalance the equilibrium and allow the phlogiston, a concentrated mix of elemental air and fire, to escape. The resulting explosion is a startling example of

the dangers of modern experimental Aristotelean chemistry.

—Despite the risks, chemists are excited about the new areas opening up within their field. "Once we realized how silly quantum theory had become, we knew we had to try a different approach," explains Stanford chemist, G. Skwid. "I mean, 'prescient charm green quarks'? You've gotta be kidding!"

**Newsriters' meeting today in the predictable place. This'd be it folks, last one! Show up for old times' sake!**

**Photo meeting today, 17h00, at the Ritz Carleton, suite 2104. Bring caviar and champagne and a speech therapist.**

## ...Climate

continued from page 5

weather patterns up to two weeks in advance with reasonable accuracy Hare said there was a need for long-term predictions, on the scale of years and decades. He noted that the United States Department of Agriculture discourages the publication of long-term modelling attempts, so they cannot fall into the wrong hands.

It is unlikely that carbon dioxide emissions will be cut back significantly before the finite oil supply forces reductions upon us. Legislation has been concerned only with reducing other pollutants. Emissions of other gases might be limited, and there are a great many supplementary arguments against deforestation, so that we might work towards control of this.

The greenhouse effect certainly matters a damn, but without reasonably accurate predictive tools, climatologists are going to be hard pressed to convince governments of this fact.

### events

#### Today

McGill Squash Club: last club nite. 19h00 at Currie Gym.  
Liberal McGill: general meeting and executive elections. 17h00 in Arts Council room.  
McGill Outing Club general meeting in Leacock 232, 19h30.  
AISEC presents M. Eric Patterson on "International Trade," 16h30 to 18h00 in Bronfman 551.  
McGill Go Club meeting 17h00 in Union 107.  
History Film Series: presents *The Grapes of Wrath* starring Henry Fonda. 19h30 in The Alley. It's free.

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### EASTER WEEK SERVICES

**ST. MARTHA'S IN-THE-BASEMENT\***

**Good Friday, April 1, 1988 • 7:00 pm - 8:00 pm**

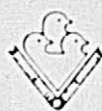
A candlelight service of readings, prayers and a meditation.

**Easter Sunday, April 3, 1988 • 10:30 am**

Service celebrating the Resurrection of Christ  
(Pot luck luncheon following)

All are welcome - Looking forward to seeing you!

\*3521 University Street  
for more info: 398-4104



### ATTENTION ALL STUDENTS' SOCIETY COUNCILLORS-ELECT

The first two meetings of the 1988/89  
McGill Students' Council will be held:

**WEDNESDAY, APRIL 6, 1988  
7:00 P.M.**

**UNIVERSITY CENTRE, ROOM 107/108**

AND

**WEDNESDAY, APRIL 13, 1988  
7:00 P.M.**

**UNIVERSITY CENTRE, ROOM 310**

At the April 6th meeting, nominations will  
be called for the following positions:

- Vice-President, Finance •
- Speaker of Students' Council •
- Various Committees •

At the April 13th meeting, elections will  
be held for the above-named positions.

#### NOTE:

*If you have not registered at the  
Students' Society General Office,  
please do so as soon as possible.*

## DEADLINE FOR ADVERTISING

FOR THE FINAL EDITION OF THE DAILY

(To appear on Thursday, April 7, 1988)

is **TOMORROW, THURSDAY, MARCH 31 AT 16H00**  
NO LATE ADS (DISPLAY OR CLASSIFIED) WILL BE ACCEPTED



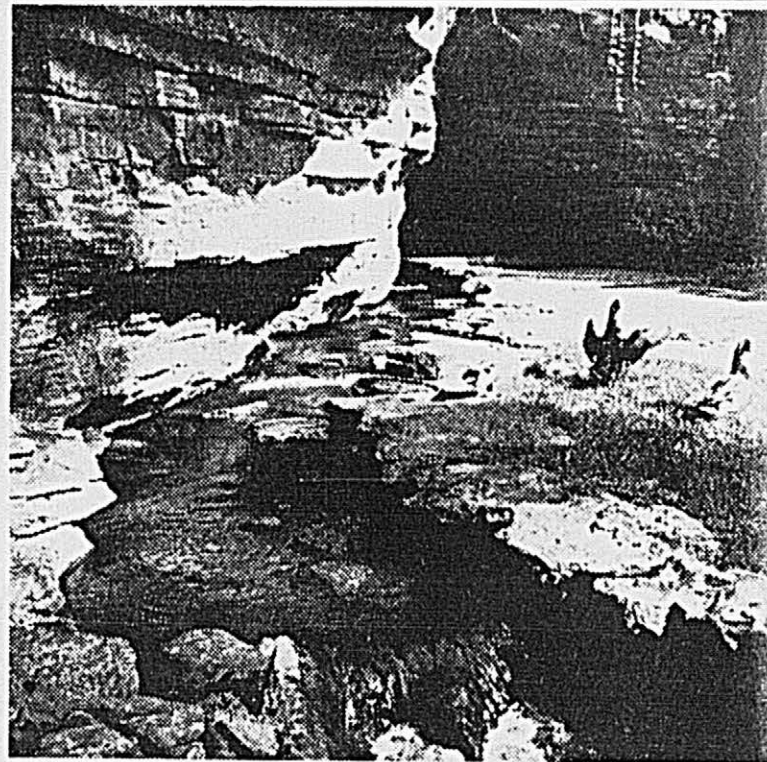
### MBA INFORMATION SESSION

McGill University  
TUESDAY, APRIL 5, 1988  
12:30 to 2:00 p.m.  
Room 1 Samuel Bronfman  
and  
Downtown Montreal  
TUESDAY, APRIL 5, 1988  
5:30 to 7:00 p.m.  
Bonaventure Hotel

Speaker:  
DEAN CATHERINE VERTESI  
Director, MBA Program

There will be a  
formal presentation followed  
by a question and answer period

(Entrance requirements include a four year undergraduate degree)



Jack Daniel's Tennessee Whiskey is represented in Canada by F&M Distillery Ltd., Brampton, Ontario.

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We don't rightly know how far back this spring flows. But we know it goes farther back than a person can. And we know it's iron-free, and just right for making sippin' smooth Jack Daniel's Tennessee Whiskey. Even if we can't say this spring water starts in Canada, we're very proud some of it ends up in Canada as Jack Daniel's Tennessee Whiskey.



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**AD DEADLINE**  
FOR THE FINAL ISSUE  
IS TOMORROW  
AT 16H00  
**No late ads will  
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Classified Ad Deadline  
Thursday, 31 March  
16h00  
This is your last chance  
this year.

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- Approved by the New York State Education Department for the purpose of conducting a clinical program in New York teaching hospitals. St. George's received a similar approval from the New Jersey Board of Medical Examiners.
- The General Medical Council of the United Kingdom officially recognized St. George's University School of Medicine on February 9, 1988. This recognition allows graduates of St. George's to do postgraduate training in Great Britain.
- Over 700 St. George's students have transferred to U.S. medical schools. More than 1,275 graduates; licensed in 44 states; hold faculty positions in over 25 U.S. medical schools; 25% have been chief residents in 119 U.S. hospitals (according to a 1986 survey).

For information  
please  
contact:

St. George's University School of Medicine  
Office of Admissions c/o FMSSC  
One East Main Street • Bay Shore, NY 11706  
(516) 665-8500

# MACES

## GENERAL ELECTION - 1988

Due to unforeseen delays in the mailing process, and in order to ensure that the highest possible number of students are able to vote, the deadline for the returning of ballots has been extended to Wednesday, April 6, 1988, at 17h00.

As well though, in order to compensate for any other unforeseen delays in the mail, over which we have no control, please be advised that bona-fide members of **MACES** who wish to vote in person may do so by going to the polling station set up at the information desk at the Centre for Continuing Education, 3461 McTavish St., 2nd floor of the Redpath Library Building, from 17h00-19h00 on Monday, March 28 and Tuesday, March 29, and from 12h00-17h00 on Wednesday, March 30, 1988 -- the voters need only to bring their student ID and one other piece of ID, the polling station will have all of the other necessary voting material on hand.

The counting of the ballots, for which all candidates and **MACES'** members are entitled to attend, will take place on Wednesday, April 6, 1988, commencing at 17h30 in room 203 at the Centre for Continuing Education.

**For more information contact Ivar  
Bergs, MACES' C.R.O., at 398-4974.**



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Come in for more information and counselling by the Academic Advisers of the Management Graduate Department, 9:00 a.m. to 5:00 p.m. week-days, Redpath Library Building, or telephone 398-6170.



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Winnipeg	\$139	\$219	\$279
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